edeposit.amqp.pdfgen

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This module is used to dynamically generate some of the PDF documents, which are required by the E-deposit project website.

CHAPTER 1

API

1.1 pdfgen package

1.1.1 Submodules

pdfgen.specialization module

`pdfgen.specialization.`**`get_contract`**(*firma*, *pravni_forma*, *sidlo*, *ic*, *dic*, *zastoupen*)

Compose contract and create PDF.

Parameters

- **firma** (*str*) – firma
- **pravni_forma** (*str*) – pravni_forma
- **sidlo** (*str*) – sidlo
- **ic** (*str*) – ic
- **dic** (*str*) – dic
- **zastoupen** (*str*) – zastoupen

Returns StringIO file instance containing PDF file.

Return type obj

`pdfgen.specialization.`**`get_review`**(*review_struct*)

Generate review from *review_struct*.

Parameters **review_struct** (*obj*) – `GenerateReview` instance.

Returns StringIO file instance containing PDF file.

Return type obj

pdfgen.translator module

`pdfgen.translator.`**`FOOTER = '###Page###/###Total###'`**

`pdfgen.translator.`**`gen_pdf`**(*rst_content*, *style_text*, *header=None*, *footer='###Page###/###Total###'*)

Create PDF file from *rst_content* using *style_text* as style.

Optinally, add *header* or *footer*.

Parameters

- **rst_content** (*str*) – Content of the PDF file in restructured text markup.
- **style_text** (*str*) – Style for the `rst2pdf` module.
- **header** (*str, default None*) – Header which will be rendered to each page.
- **footer** (*str, default FOOTER*) – Footer, which will be rendered to each page. See `FOOTER` for details.

Returns StringIO file instance containing PDF file.

Return type obj

1.1.2 Module contents

`pdfgen.`**`reactToAMQPMessage`**(*message*, *sender*)

React to given (AMQP) message. *message* is usually expected to be `collections.namedtuple()` structure filled with all necessary data.

Parameters

- **message** (**Request class*) – One of the structures defined in `requests`.
- **sender** (*fn reference*) – Reference to function for responding - progress monitoring for example. Function takes one parameter, which may be response namedtuple, or string or whatever would be normally returned.

Returns One of the responses in `responses`.

Return type obj

Raises `ValueError` – if bad type of *message* structure is given.

1.2 pdfgen.specialization module

`pdfgen.specialization.`**`get_contract`**(*firma*, *pravni_forma*, *sidlo*, *ic*, *dic*, *zastoupen*)

Compose contract and create PDF.

Parameters

- **firma** (*str*) – firma
- **pravni_forma** (*str*) – pravni_forma
- **sidlo** (*str*) – sidlo
- **ic** (*str*) – ic
- **dic** (*str*) – dic
- **zastoupen** (*str*) – zastoupen

Returns StringIO file instance containing PDF file.

Return type obj

`pdfgen.specialization.`**`get_review`**(*review_struct*)

Generate review from *review_struct*.

Parameters **review_struct** (*obj*) – `GenerateReview` instance.

Returns StringIO file instance containing PDF file.

Return type obj

1.3 pdfgen.translator module

`pdfgen.translator.`**`FOOTER`** **= '###Page###/###Total###'**

`pdfgen.translator.`**`gen_pdf`**(*rst_content*, *style_text*, *header=None*, *footer='###Page###/###Total###'*)

Create PDF file from *rst_content* using *style_text* as style.

Optinally, add *header* or *footer*.

Parameters

- **rst_content** (*str*) – Content of the PDF file in restructured text markup.
- **style_text** (*str*) – Style for the `rst2pdf` module.
- **header** (*str, default None*) – Header which will be rendered to each page.
- **footer** (*str, default FOOTER*) – Footer, which will be rendered to each page. See `FOOTER` for details.

Returns StringIO file instance containing PDF file.

Return type obj

CHAPTER 2

AMQP communication

2.1 pdfgen.structures.requests module

class `pdfgen.structures.requests.`**`GenerateContract`**

Bases: `pdfgen.structures.requests.GenerateContract`

Request to generate contract.

`firma`

str – As it is defined in contract.

`pravni_forma`

str – As it is defined in contract.

`sidlo`

str – As it is defined in contract.

`ic`

str – As it is defined in contract.

`dic`

str – As it is defined in contract.

`zastoupen`

str – As it is defined in contract.

class `pdfgen.structures.requests.`**`GenerateReview`**

Bases: `pdfgen.structures.requests.GenerateReview`

Generate review of sent form.

`nazev`

any – Název ePublikace

`podnazev`

any – Podnázev

`cast`

any – Část (svazek,díl)

`nazev_casti`

any – Název části, dílu

`isbn`

any – ISBN

isbn_souboru_publikaci
any – ISBN souboru

generated_isbn
any – Přidělit ISBN

author1
any – Autor

author2
any – Autor 2

author3
any – Autor 3

poradi_vydani
any – Pořadí vydání, verze

misto_vydani
any – Místo vydání

rok_vydani
any – Rok vydání

nakladatel_vydavatel
any – Nakladatel

vydano_v_koedici_s
any – Vydáno v koedici s

cena
any – Cena v Kč

anotace
any – Anotace knihy

libraries_accessing
any – Oprávnění knihovnám

libraries_that_can_access
any – Seznam knihoven

is_public
any – Vystavení na volném internetu

url
any – URL

offer_to_riv
any – Zpřístupnit pro RIV

category_for_riv
any – Seznam oborů pro RIV

zpracovatel_zaznamu
any – Zpracovatel záznamu

format
any – Formát souboru

filename
any – Název souboru

internal_url
any – Edeposit URL

get_rst()

wrap_long_links(*s*)

escape_rst_sequences(*s*)

class pdfgen.structures.requests.**RST2PDF**
Bases: pdfgen.structures.requests.RST2PDF

Generic request to convert RST file to PDF.

rst_content
str – Content of the generated PDF file.

style
str – Style for the generated PDF file.

header
str, default None – Header of each page.

footer
str, default pagecount – Footer of each page.

2.2 pdfgen.structures.responses module

pdfgen.structures.responses.**pdf_from_file**(*file_obj*)
Convert *file_obj* to base64 string.

Parameters **file_obj** (*obj*) – Opened file like object.

Returns Base64 encoded string.

Return type str

class pdfgen.structures.responses.**PDF**
Bases: pdfgen.structures.responses.PDF

Response to request containing base64 representation of genrated PDF.

b64_content
str – Base64 string.

CHAPTER 3

Installation

Installation at debian systems is really easy:

```
pip install edeposit.amqp.pdfgen
```

3.1 (Open)Suse

OpenSuse by default doesn't have installed the FreeSerif fonts, which are required for this package.

You can install it using following commands:

```
cd /tmp
wget http://213.174.32.130/sles/distribution/11.0-SP1/repo/sdk/suse/noarch/freefont-0.20080323-1.17.r
zypper install freefont-0.20080323-1.17.noarch.rpm
```

CHAPTER 4

Source code

This project is released as opensource (GPL) and source codes can be found at GitHub:

- https://github.com/edeposit/edeposit.amqp.pdfgen

CHAPTER 5

Indices and tables

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